

SASKATCHEWAN RESEARCH COUNCIL

GUNNAR TAILINGS REMEDIATION DESIGN

DRAWING INDEX

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LOCALITY PLAN



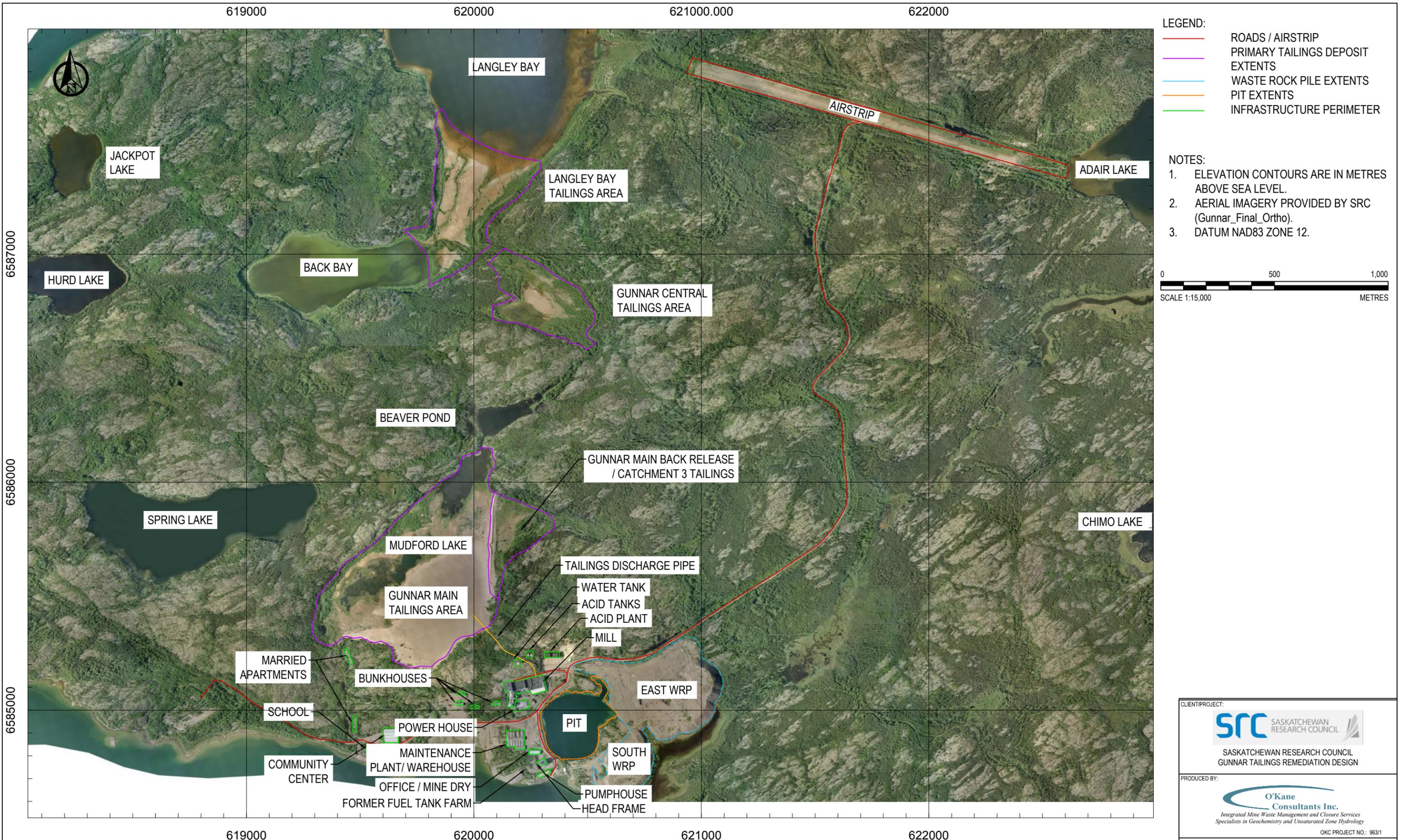
IMAGERY FROM GOOGLE MAPS
N.T.S

PREPARED BY:



PREPARED FOR:



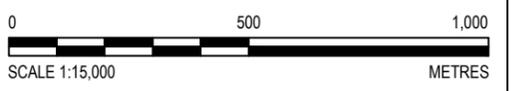


LEGEND:

- ROADS / AIRSTRIP
- PRIMARY TAILINGS DEPOSIT EXTENTS
- - - WASTE ROCK PILE EXTENTS
- PIT EXTENTS
- INFRASTRUCTURE PERIMETER

NOTES:

1. ELEVATION CONTOURS ARE IN METRES ABOVE SEA LEVEL.
2. AERIAL IMAGERY PROVIDED BY SRC (Gunnar_Final_Ortho).
3. DATUM NAD83 ZONE 12.



CLIENT/PROJECT:

src SASKATCHEWAN RESEARCH COUNCIL

SASKATCHEWAN RESEARCH COUNCIL
GUNNAR TAILINGS REMEDIATION DESIGN

PRODUCED BY:

O'Kane Consultants Inc.
Integrated Mine Waste Management and Closure Services
Specialists in Geochemistry and Unsaturated Zone Hydrology
OKC PROJECT NO.: 963/1

REFERENCE	DWG. NO.	DESCRIPTION

NO.	DESCRIPTION	DRN. BY:	APPD. BY:	DATE
A	ISSUED FOR CLIENT REVIEW.	HSC	BKA	MAY 28, 2015
B	ISSUED FOR REGULATORY REVIEW.	HSC	BKA	JUNE 29, 2015

DRN. BY:	H. COOPER, A.Sc.T	DATE:	MAY 25, 2015
APPD. BY:	B. AYRES, P. Eng	DATE:	MAY 28, 2015
SCALE:	1:15,000	PAGE SIZE:	ANSI B
OKC RPT. NO.:	963/1-01		

GUNNAR EXISTING SITE FEATURES	
DWG. NO.:	963/1-001
REV.:	B

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OKC REPORT - JUNE 2015 DESIGN REPORT (#963/1-01).



LEGEND:
 — CATCHMENT EXTENT
 ← SURFACE WATER FLOW DIRECTION

- NOTES:**
- ELEVATION CONTOURS ARE IN METRES ABOVE SEA LEVEL.
 - AERIAL IMAGERY PROVIDED BY SRC (Gunnar_Final_Ortho).
 - CATCHMENT AND SURFACE WATER FLOW DIRECTION RE-CREATED FROM INFORMATION PROVIDED BY SRC (wshed_091201.shp, wshed_flow_091201).
 - DATUM NAD83 ZONE 12.



CLIENT/PROJECT:

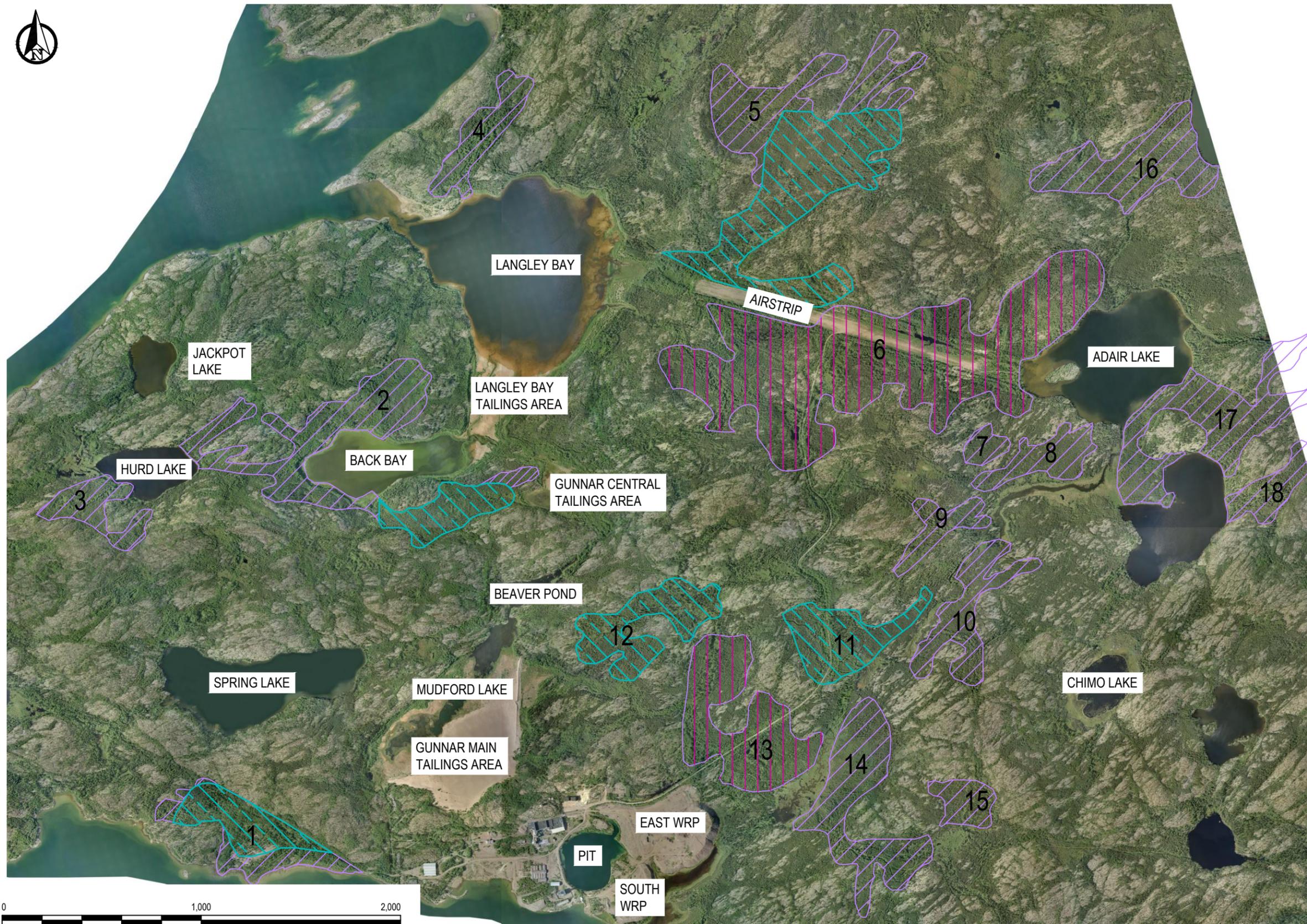
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 GUNNAR TAILINGS REMEDIATION DESIGN

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			A	ISSUED FOR CLIENT REVIEW.	HSC	BKA	MAY 28, 2015	H. COOPER, A.Sc.T		MAY 25, 2015					
			B	ISSUED FOR REGULATORY REVIEW.	HSC	HSC	JUNE 29, 2015		B. AYRES, P. Eng	MAY 28, 2015			963/1-01	963/1-002	B

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LEGEND:

	POSSIBLE BORROW SOURCE
	CONFIRMED BORROW SOURCE
	TO BE CONFIRMED BORROW SOURCE

BORROW SOURCE	AREA
1	1.2 ha
2	1.1 ha
5	4.3 ha
6	10.4 ha
11	1.6 ha
12	1.7 ha
13	2.9 ha

- NOTES:**
- ELEVATION CONTOURS ARE IN METRES ABOVE SEA LEVEL.
 - AERIAL IMAGERY PROVIDED BY SRC (Gunnar_Final_Ortho).
 - POSSIBLE BORROW SOURCE PERIMETERS CREATED FROM INFORMATION PROVIDED BY SRC (BorrowSources.shp, BorrowArea6.shp).
 - DATUM NAD83 ZONE 12.

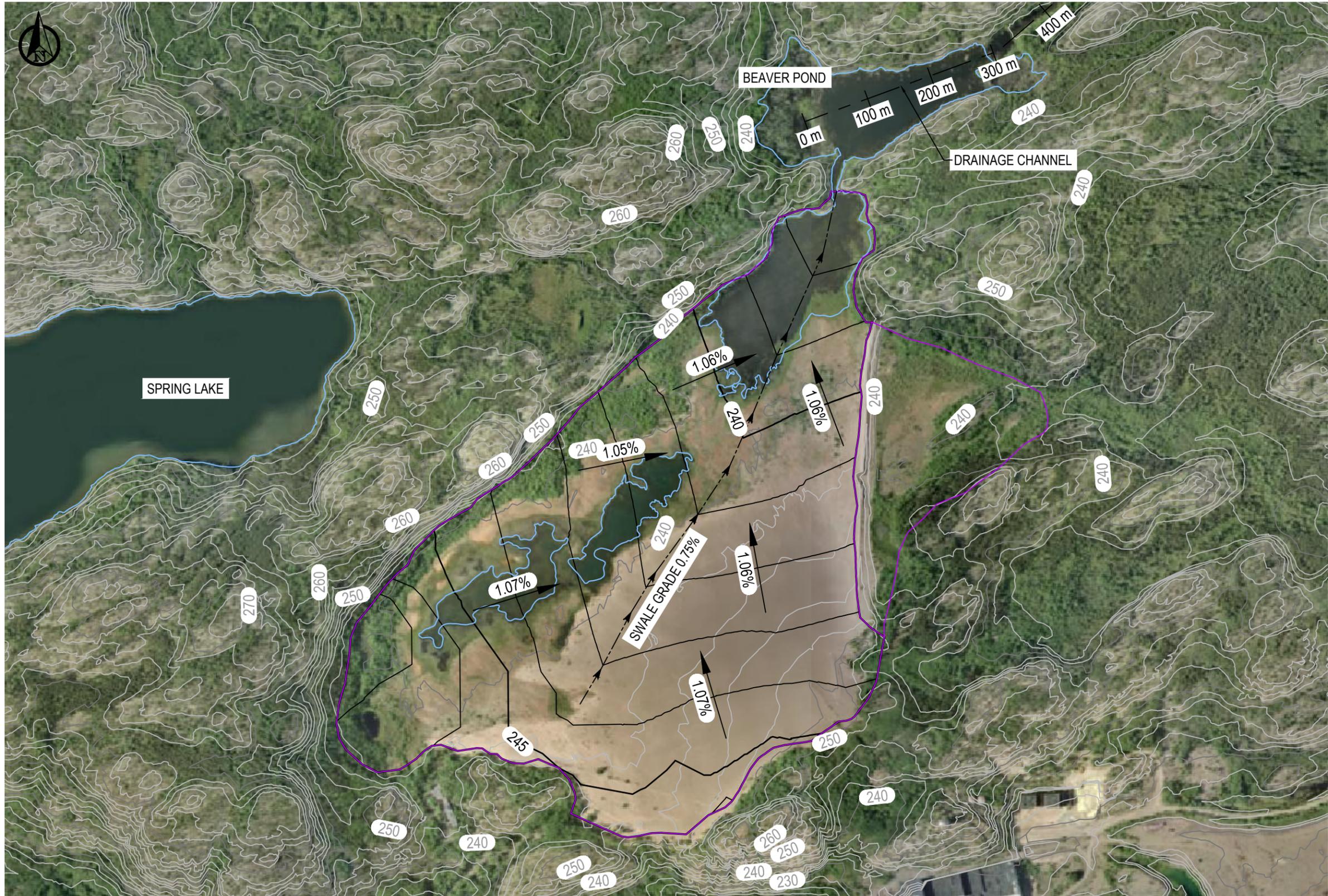
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GUNNAR TAILINGS REMEDIATION DESIGN

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Integrated Mine Waste Management and Closure Services
Specialists in Geochemistry and Unsaturated Zone Hydrology
OKC PROJECT NO.: 963/1

REFERENCE	DWG. NO.	DESCRIPTION	NO.	DESCRIPTION	DRN. BY:	APPD. BY:	DATE	DRN. BY:	DATE:	
			B	ISSUED FOR REGULATORY REVIEW AND ADDITIONAL INFORMATION.	HSC	BKA	JUNE 29, 2015	B. AYRES, P. Eng	MAY 28, 2015	
								SCALE: 1:20,000	PAGE SIZE: ANSI B	OKC RPT. NO.: 963/1-01
GUNNAR CONFIRMED AND POTENTIAL BORROW SOURCES										
DWG. NO.: 963/1-003 REV.: B										

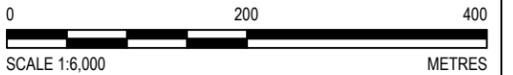


- LEGEND:**
- EXISTING MAJOR CONTOUR (10 m)
 - EXISTING MINOR CONTOUR (2 m)
 - DESIGN MAJOR CONTOUR (5 m)
 - DESIGN MINOR CONTOUR (1 m)
 - SWALE & / FLOW DIRECTION
 - TAILINGS EXTENTS (est.)

- NOTES:**
1. ELEVATION CONTOURS ARE IN METRES ABOVE SEA LEVEL.
 2. AERIAL IMAGERY PROVIDED BY SRC (Gunnar_Final_Ortho).
 3. EXISTING TOPOGRAPHY PROVIDED BY SRC (Gunnar_Contours_dwg_Polyline.shp).
 4. DATUM NAD83 ZONE 12.

MATERIAL QUANTITIES (est.):

- RE-CONTOURED TAILINGS - 266,000 m³
- WORKING PLATFORM FILL - 620,000 m³
- 0.5 m SOIL COVER - 235,000 m³



GUNNAR MAIN TAILINGS AREA LANDFORM - NORTH DRAINAGE

1:6,000



SASKATCHEWAN RESEARCH COUNCIL
GUNNAR TAILINGS REMEDIATION DESIGN

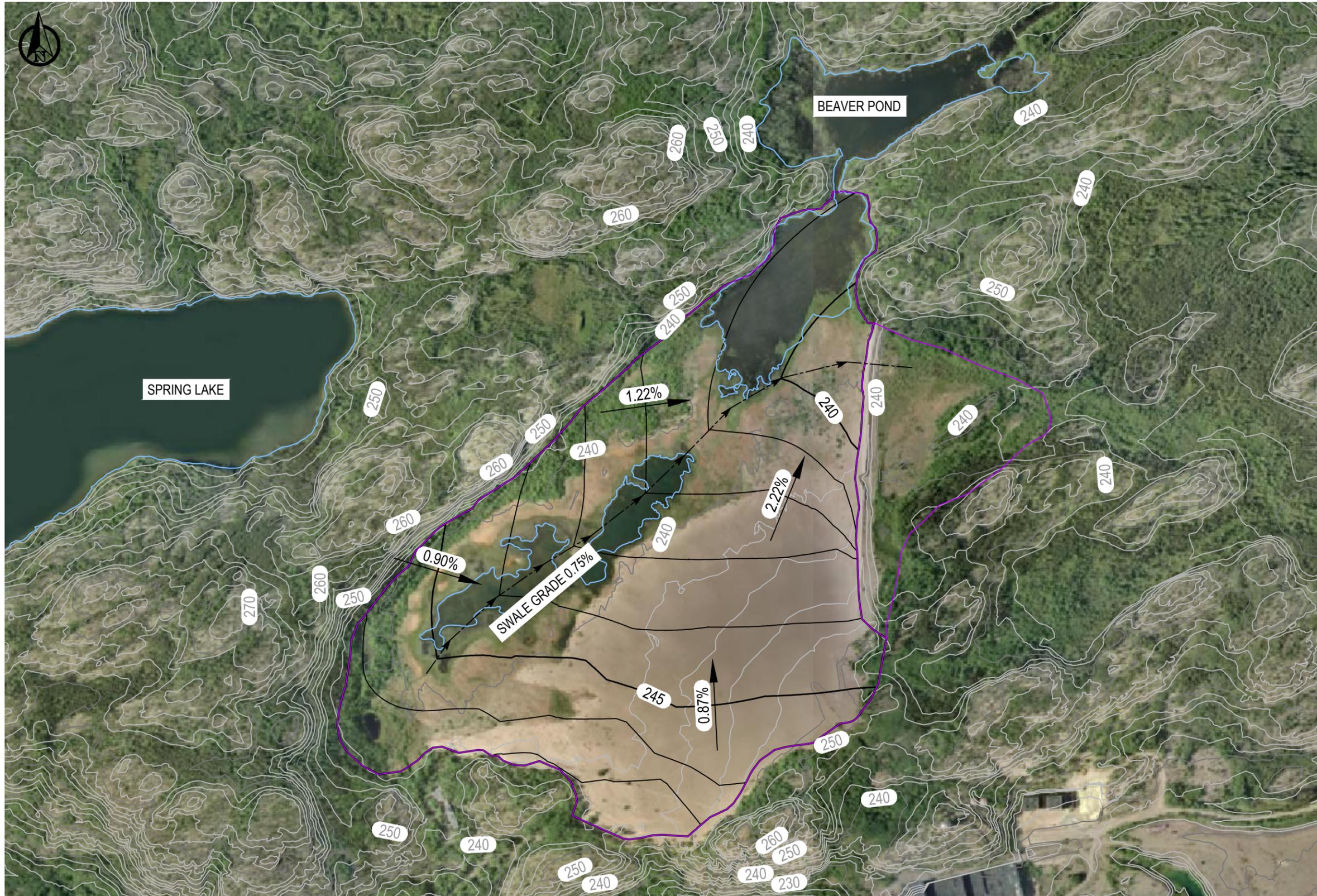


OKC PROJECT NO.: 963/1

**GUNNAR MAIN TAILINGS AREA
LANDFORM - OPTION 1**

DWG. NO.: 963/1-004 REV.: B

REFERENCE	DWG. NO.	DESCRIPTION	NO.	DESCRIPTION	DRN. BY:	APPD. BY:	DATE	DRN. BY:	DATE:
			B	ISSUED FOR REGULATORY REVIEW.	HSC	BKA	JUNE 29, 2015	B. AYRES, P. Eng	MAY 28, 2015
								SCALE: 1:6,000	PAGE SIZE: ANSI B
								OKC RPT. NO.: 963/1-01	



- LEGEND:**
- EXISTING MAJOR CONTOUR (10 m)
 - EXISTING MINOR CONTOUR (2 m)
 - DESIGN MAJOR CONTOUR (5 m)
 - DESIGN MINOR CONTOUR (1 m)
 - SWALE & / FLOW DIRECTION
 - TAILINGS EXTENTS (est.)

- NOTES:**
1. ELEVATION CONTOURS ARE IN METRES ABOVE SEA LEVEL.
 2. AERIAL IMAGERY PROVIDED BY SRC (Gunnar_Final_Ortho).
 3. EXISTING TOPOGRAPHY PROVIDED BY SRC (Gunnar_Contours_dwg_Polyline.shp).
 4. DATUM NAD83 ZONE 12.

MATERIAL QUANTITIES (est.):
 RE-CONTOURED TAILINGS - 165,000 m³
 WORKING PLATFORM FILL - 980,000 m³
 0.5 m SOIL COVER - 235,000 m³



GUNNAR MAIN TAILINGS AREA LANDFORM - BACK RELEASE DRAINAGE

1:6,000

CLIENT/PROJECT:

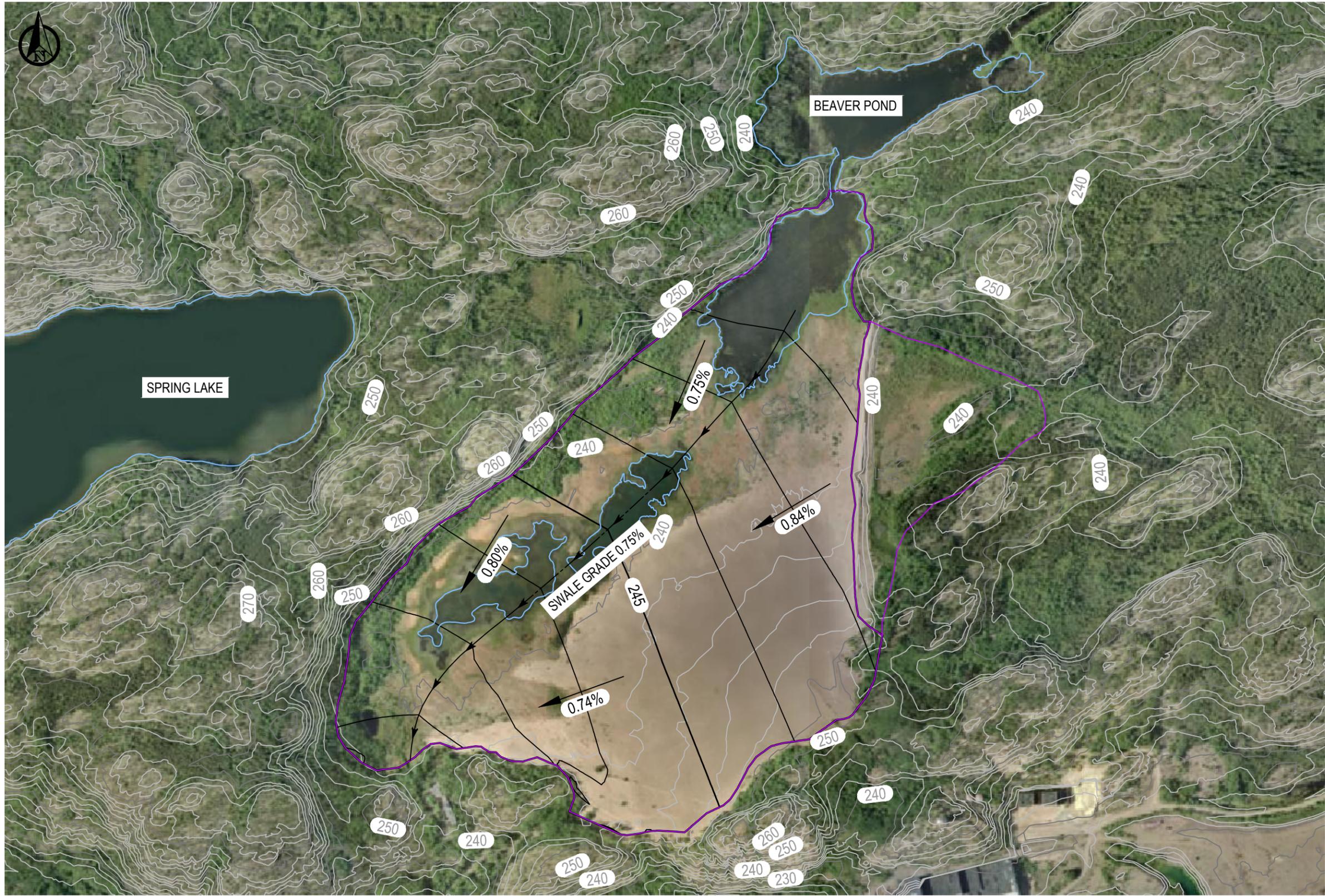
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 OKC PROJECT NO.: 963/1

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				A	ISSUED FOR CLIENT REVIEW.	HSC	BKA	MAY 28, 2015	H. COOPER, A.Sc.T
			B	ISSUED FOR REGULATORY REVIEW.	HSC	BKA	JUNE 29, 2015	B. AYRES, P. Eng	MAY 28, 2015
								SCALE: 1:6,000	PAGE SIZE: ANSI B
								OKC RPT. NO.: 963/1-01	

GUNNAR MAIN TAILINGS AREA LANDFORM - OPTION 2	
DWG. NO.: 963/1-005	REV.: B



LEGEND:

	EXISTING MAJOR CONTOUR (10 m)
	EXISTING MINOR CONTOUR (2 m)
	DESIGN MAJOR CONTOUR (5 m)
	DESIGN MINOR CONTOUR (1 m)
	SWALE € / FLOW DIRECTION
	TAILINGS EXTENTS (est.)

- NOTES:**
- ELEVATION CONTOURS ARE IN METRES ABOVE SEA LEVEL.
 - AERIAL IMAGERY PROVIDED BY SRC (Gunnar_Final_Ortho).
 - EXISTING TOPOGRAPHY PROVIDED BY SRC (Gunnar_Contours_dwg_Polyline.shp).
 - DATUM NAD83 ZONE 12.

MATERIAL QUANTITIES (est.):

RE-CONTOURED TAILINGS	- 75,000 m ³
WORKING PLATFORM FILL	- 1,810,000 m ³
0.5 m SOIL COVER	- 235,000 m ³



GUNNAR MAIN TAILINGS AREA LANDFORM - SOUTHWEST DRAINAGE
1:6,000

CLIENT/PROJECT:

SASKATCHEWAN RESEARCH COUNCIL
GUNNAR TAILINGS REMEDIATION DESIGN

PRODUCED BY:

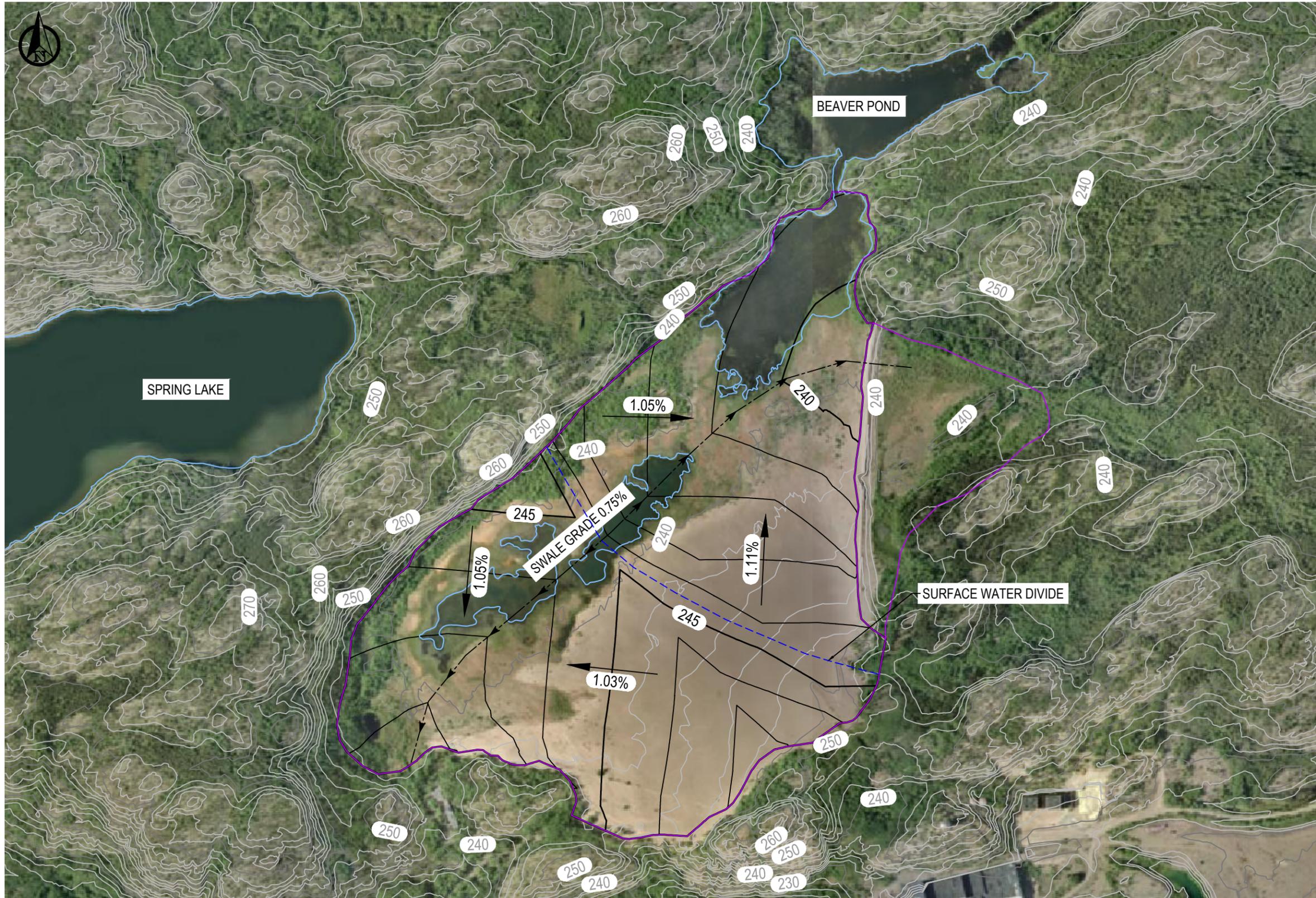
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*Integrated Mine Waste Management and Closure Services
Specialists in Geochemistry and Unsaturated Zone Hydrology*

OKC PROJECT NO.: 963/1

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								OKC RPT. NO.: 963/1-01	

GUNNAR MAIN TAILINGS AREA LANDFORM - OPTION 3	
DWG. NO.: 963/1-006	REV.: B

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- LEGEND:**
- EXISTING MAJOR CONTOUR (10 m)
 - EXISTING MINOR CONTOUR (2 m)
 - DESIGN MAJOR CONTOUR (5 m)
 - DESIGN MINOR CONTOUR (1 m)
 - SWALE & / FLOW DIRECTION
 - TAILINGS EXTENTS (est.)

- NOTES:**
1. ELEVATION CONTOURS ARE IN METRES ABOVE SEA LEVEL.
 2. AERIAL IMAGERY PROVIDED BY SRC (Gunnar_Final_Ortho).
 3. EXISTING TOPOGRAPHY PROVIDED BY SRC (Gunnar_Contours_dwg_Polyline.shp).
 4. DATUM NAD83 ZONE 12.

MATERIAL QUANTITIES (est.):
 RE-CONTOURED TAILINGS - 145,000 m³
 WORKING PLATFORM FILL - 825,000 m³
 0.5 m SOIL COVER - 235,000 m³



GUNNAR MAIN TAILINGS AREA LANDFORM - SOUTHWEST & BACK REALEASE DRAINAGE

1:6,000

CLIENT/PROJECT:



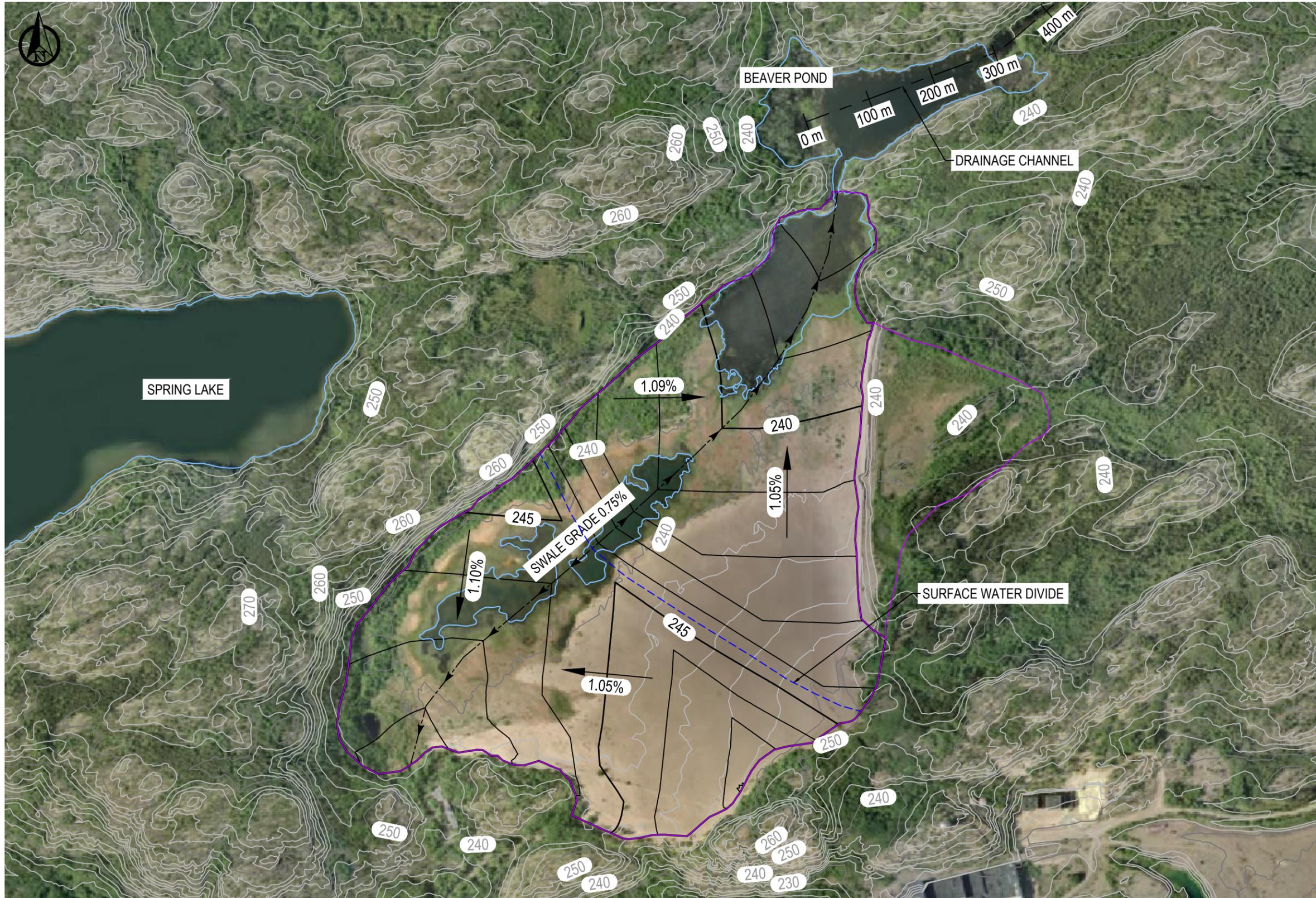
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 GUNNAR TAILINGS REMEDIATION DESIGN

PRODUCED BY:



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 Integrated Mine Waste Management and Closure Services
 Specialists in Geochemistry and Unsaturated Zone Hydrology
 OKC PROJECT NO.: 963/1

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			B	ISSUED FOR REGULATORY REVIEW.	HSC	BKA	JUNE 29, 2015	B. AYRES, P. Eng	MAY 28, 2015
								SCALE: 1:6,000	PAGE SIZE: ANSI B
								OKC RPT. NO.: 963/1-01	
								DWG. NO.: 963/1-007	REV.: B



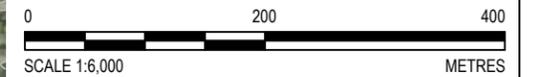
LEGEND:

	EXISTING MAJOR CONTOUR (10 m)
	EXISTING MINOR CONTOUR (2 m)
	DESIGN MAJOR CONTOUR (5 m)
	DESIGN MINOR CONTOUR (1 m)
	SWALE & / FLOW DIRECTION
	TAILINGS EXTENTS (est.)

- NOTES:**
- ELEVATION CONTOURS ARE IN METRES ABOVE SEA LEVEL.
 - AERIAL IMAGERY PROVIDED BY SRC (Gunnar_Final_Ortho).
 - EXISTING TOPOGRAPHY PROVIDED BY SRC (Gunnar_Contours_dwg_Polyline.shp).
 - DATUM NAD83 ZONE 12.

MATERIAL QUANTITIES (est.):

RE-CONTOURED TAILINGS	- 225,000 m ³
WORKING PLATFORM FILL	- 600,000 m ³
0.5 m SOIL COVER	- 235,000 m ³



GUNNAR MAIN TAILINGS AREA LANDFORM - SOUTHWEST & NORTH DRAINAGE

1:6,000

CLIENT/PROJECT:

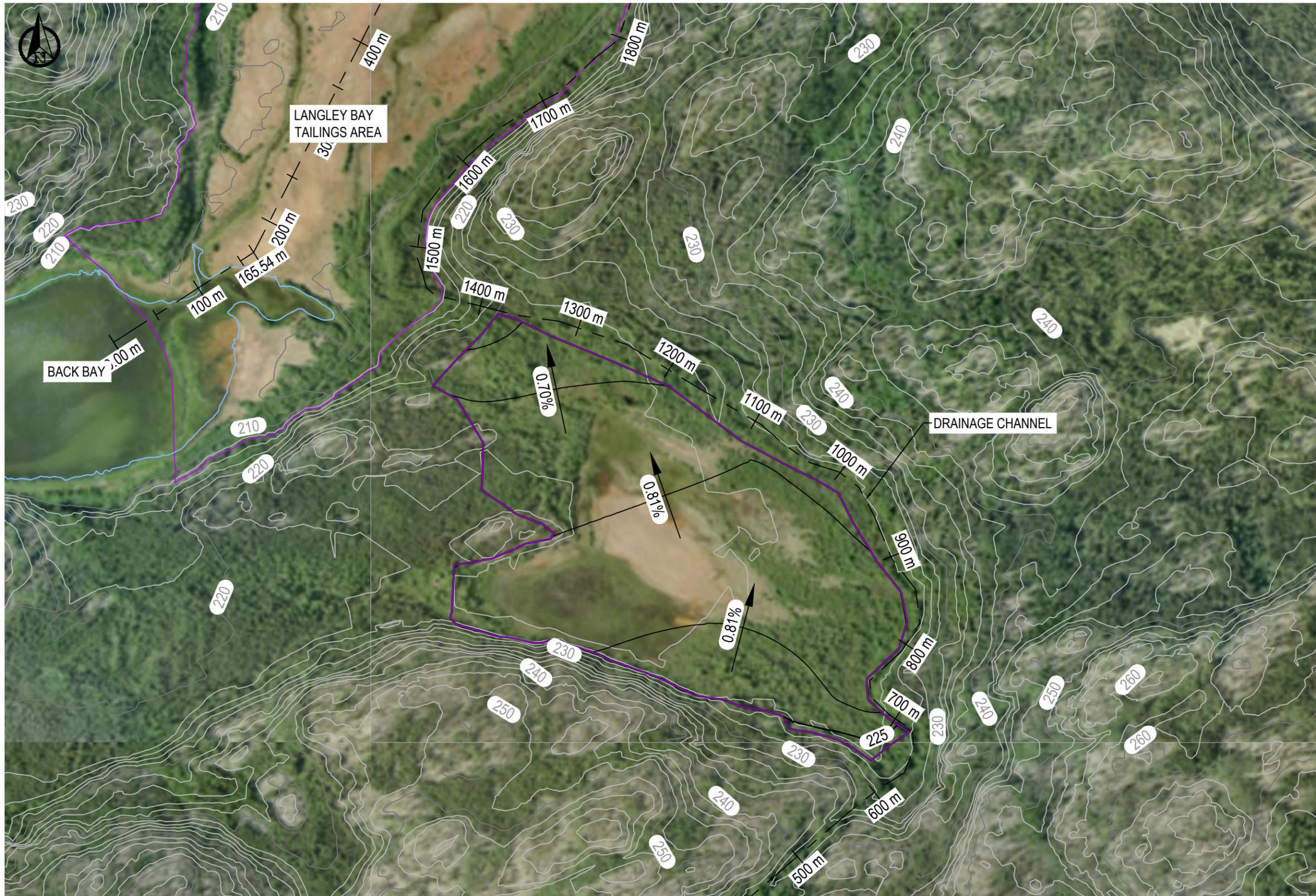
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GUNNAR TAILINGS REMEDIATION DESIGN

PRODUCED BY:

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Integrated Mine Waste Management and Closure Services
Specialists in Geochemistry and Unsaturated Zone Hydrology
OKC PROJECT NO.: 963/1

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			B	ISSUED FOR REGULATORY REVIEW.	HSC	BKA	JUNE 29, 2015	B. AYRES, P. Eng	MAY 28, 2015
								SCALE: 1:6,000	PAGE SIZE: ANSI B
								OKC RPT. NO.: 963/1-01	

GUNNAR MAIN TAILINGS AREA LANDFORM - OPTION 5	
DWG. NO.: 963/1-008	REV.: B



LEGEND:

	EXISTING MAJOR CONTOUR (10 m)
	EXISTING MINOR CONTOUR (2 m)
	DESIGN MAJOR CONTOUR (5 m)
	DESIGN MINOR CONTOUR (1 m)
	TAILINGS EXTENTS (est.)

- NOTES:**
- ELEVATION CONTOURS ARE IN METRES ABOVE SEA LEVEL.
 - AERIAL IMAGERY PROVIDED BY SRC (Gunnar_Final_Ortho).
 - EXISTING TOPOGRAPHY PROVIDED BY SRC (Gunnar_Contours_dwg_Polyline.shp).
 - DATUM NAD83 ZONE 12.

MATERIAL QUANTITIES (est.):
 WORKING PLATFORM FILL - 110,000 m³
 0.5 m SOIL COVER - 60,000 m³

GUNNAR CENTRAL TAILINGS AREA LANDFORM

1:4,000



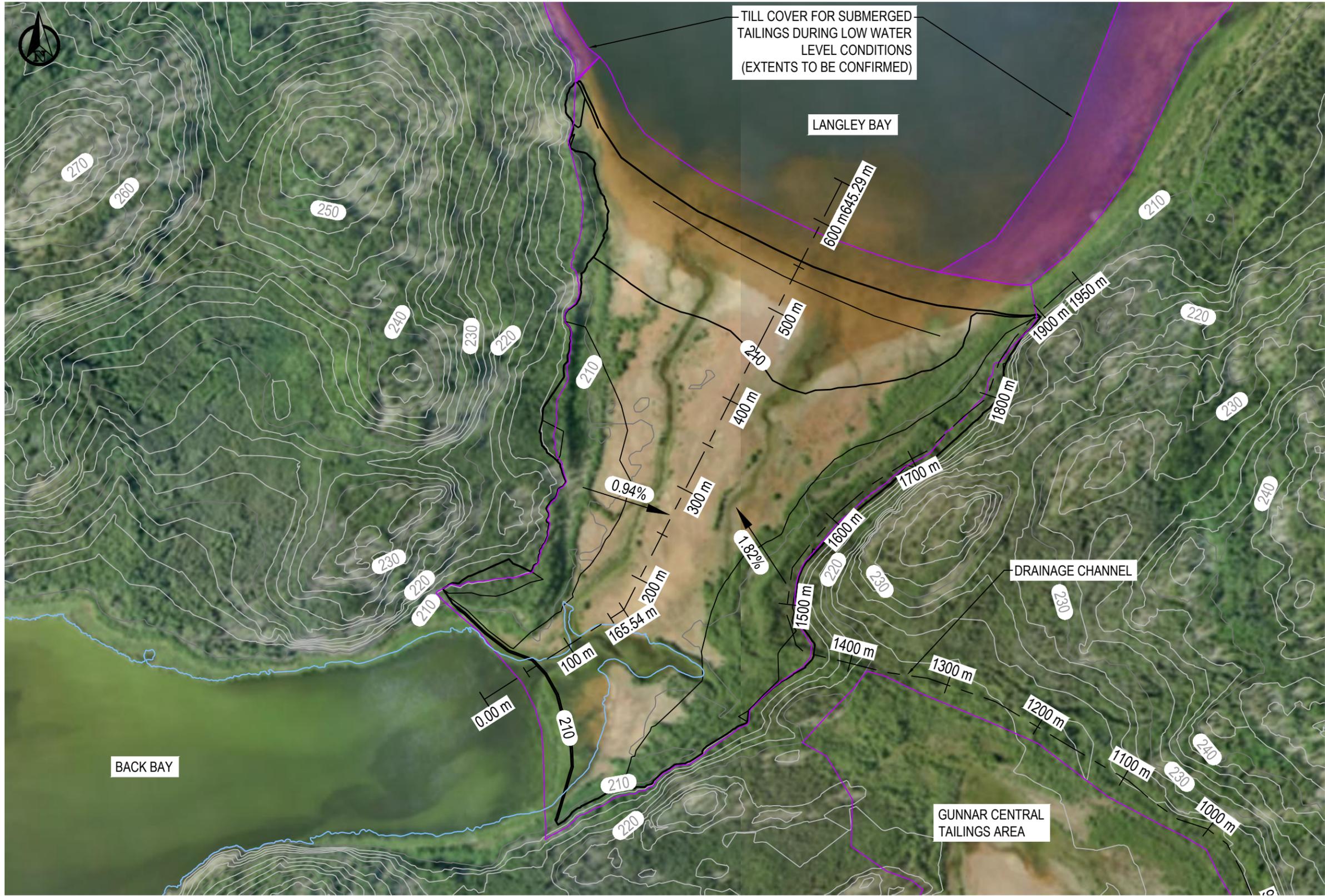
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			B	ISSUED FOR REGULATORY REVIEW.	HSC	BAK	JUNE 29, 2015	B. AYRES, P. Eng	MAY 28, 2015
								SCALE: 1:4,000	PAGE SIZE: ANSI B
								OKC RPT. NO.: 963/1-01	
								DWG. NO.: 963/1-009	REV.: B



LEGEND:

	EXISTING MAJOR CONTOUR (10 m)
	EXISTING MINOR CONTOUR (2 m)
	DESIGN MAJOR CONTOUR (5 m)
	DESIGN MINOR CONTOUR (1 m)
	TAILINGS EXTENTS (est.)

- NOTES:**
- ELEVATION CONTOURS ARE IN METRES ABOVE SEA LEVEL.
 - AERIAL IMAGERY PROVIDED BY SRC (Gunnar_Final_Ortho).
 - EXISTING TOPOGRAPHY PROVIDED BY SRC (Gunnar_Contours_dwg_Polyline.shp).
 - DATUM NAD83 ZONE 12.

MATERIAL QUANTITIES (est.):
 0.5 m SOIL COVER - 80,000 m³
 0.5 m RIPRAP - 80,000 m³



GUNNAR LANGLEY BAY TAILINGS AREA LANDFORM - 0.5 m TILL / 0.5 m RIPRAP
 1:4,000

CLIENT/PROJECT:

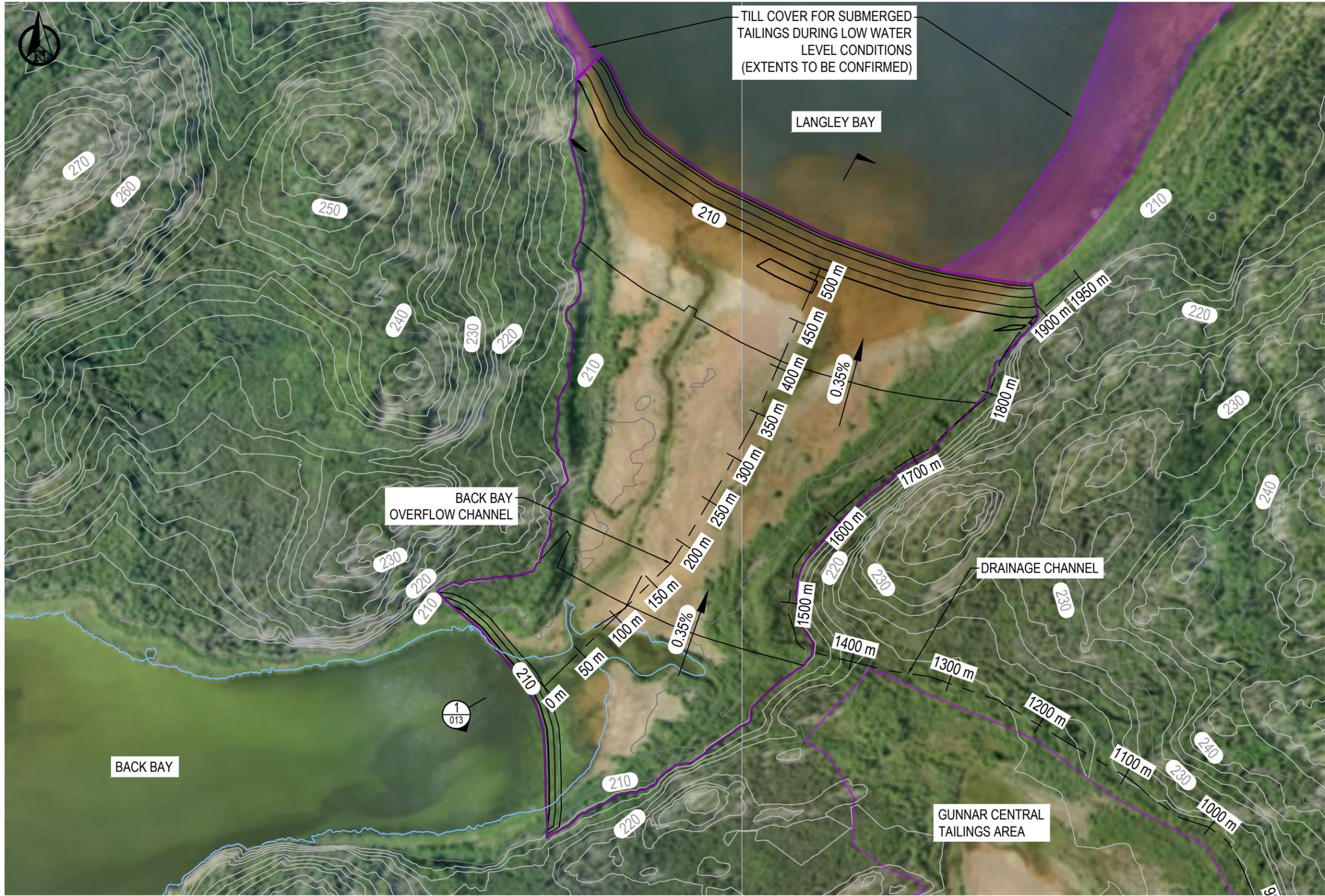
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			A	ISSUED FOR CLIENT REVIEW.	HSC	BKA	MAY 28, 2015	H. COOPER, A.Sc.T	MAY 26, 2015	1:4,000	ANSI B	963/1-01	963/1-010	B
			B	ISSUED FOR REGULATORY REVIEW.	HSC	BKA	JUNE 29, 2015	B. AYRES, P. Eng	MAY 28, 2015					

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- LEGEND:**
- EXISTING MAJOR CONTOUR (10 m)
 - EXISTING MINOR CONTOUR (2 m)
 - DESIGN MAJOR CONTOUR (5 m)
 - DESIGN MINOR CONTOUR (1 m)
 - TAILINGS EXTENTS (est.)

- NOTES:**
1. ELEVATION CONTOURS ARE IN METRES ABOVE SEA LEVEL.
 2. AERIAL IMAGERY PROVIDED BY SRC (Gunnar_Final_Ortho).
 3. EXISTING TOPOGRAPHY PROVIDED BY SRC (Gunnar_Contours_dwg_Polyline.shp).
 4. DATUM NAD83 ZONE 12.

MATERIAL QUANTITIES (est.):
 WORKING PLATFORM FILL - 298,000 m³
 RIPRAP - 21,000 m³

GUNNAR LANGLEY BAY TAILINGS AREA LANDFORM - DEFINED BEACH AREA
 1:4,000

CLIENT/PROJECT:

SASKATCHEWAN RESEARCH COUNCIL
 GUNNAR TAILINGS REMEDIATION DESIGN

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O'Kane Consultants Inc.
 Integrated Mine Waste Management and Closure Services
 Specialists in Geochemistry and Unsaturated Zone Hydrology
 OKC PROJECT NO.: 963/1

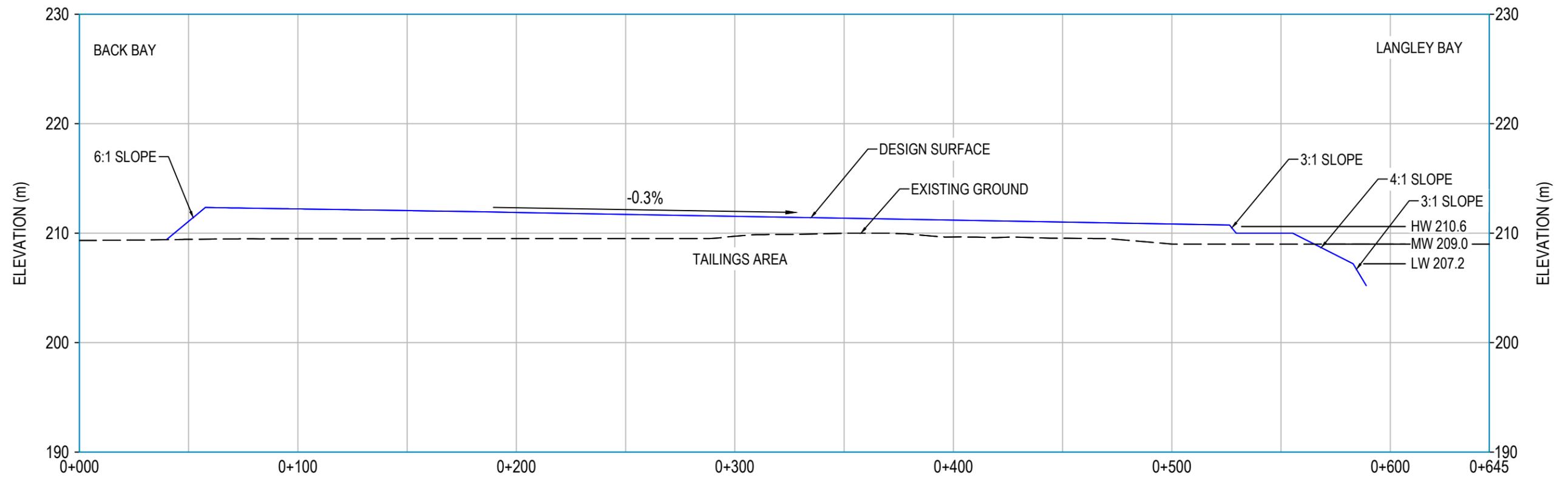
REFERENCE	DWG. NO.	DESCRIPTION

NO.	DESCRIPTION	DRN. BY:	APPD. BY:	DATE
A	ISSUED FOR CLIENT REVIEW.	HSC	BKA	MAY 28, 2015
B	ISSUED FOR REGULATORY REVIEW.	HSC	BKA	JUNE 29, 2015

DRN. BY:	H. COOPER, A.Sc.T	DATE:	MAY 26, 2015
APPD. BY:	B. AYRES, P. Eng	DATE:	MAY 28, 2015
SCALE:	1:4,000	PAGE SIZE:	ANSI B
OKC RPT. NO.:	963/1-01		

GUNNAR LANGLEY BAY TAILINGS AREA LANDFORM - OPTION 2	
DWG. NO.:	963/1-011
REV.:	B

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GUNNAR LANGLEY BAY TAILINGS AREA LANDFORM - DEFINED BEACH AREA
1:2,000 (5V : 1H)

CLIENT/PROJECT:



SASKATCHEWAN RESEARCH COUNCIL
GUNNAR TAILINGS REMEDIATION DESIGN

PRODUCED BY:



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Specialists in Geochemistry and Unsaturated Zone Hydrology*

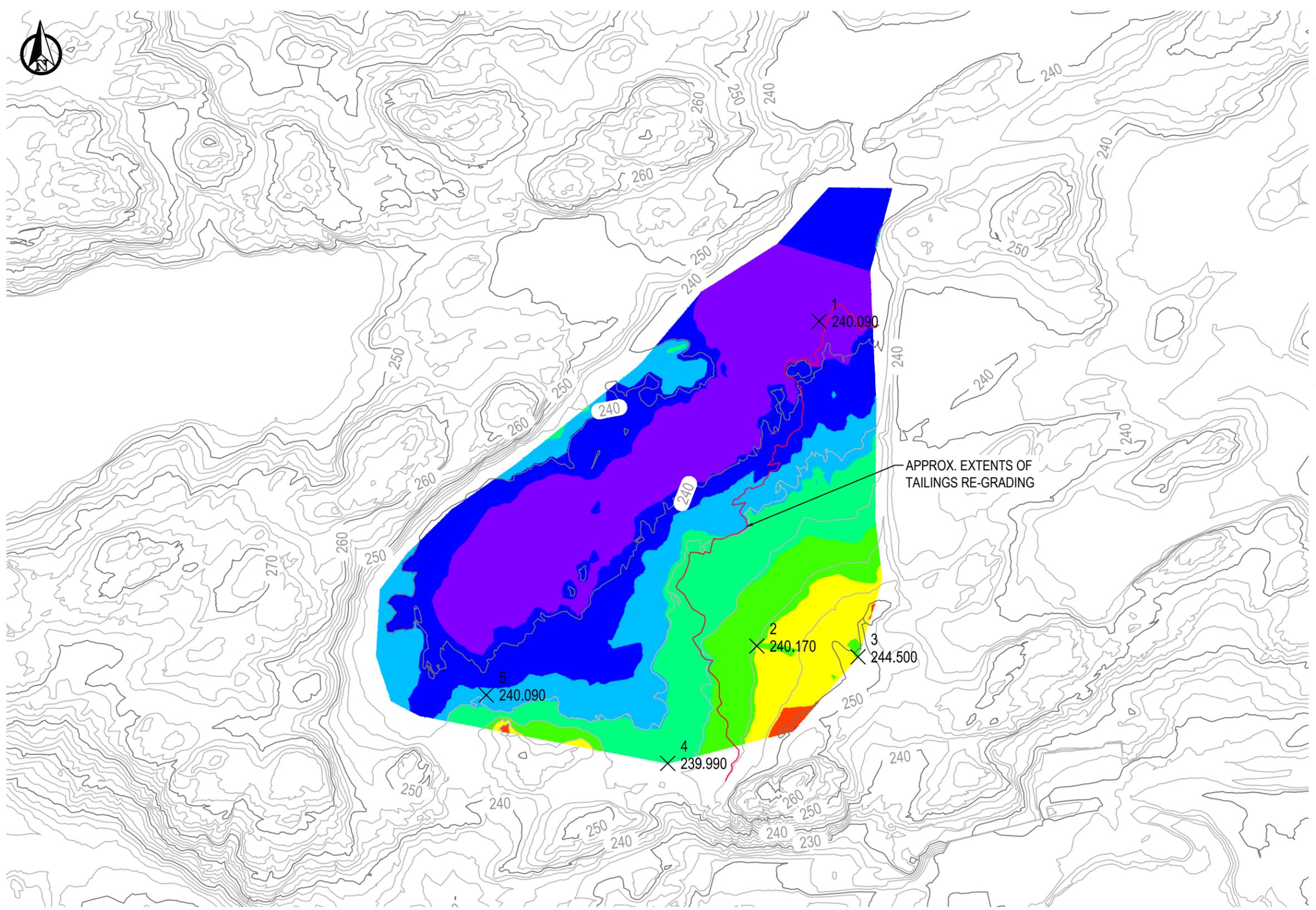
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								SCALE: 1:2,000	PAGE SIZE: ANSI B	OKC RPT. NO.: 963/1-01

**GUNNAR LANGLEY BAY TAILINGS AREA
LANDFORM - OPTION 2 SECTION**

DWG. NO.: 963/1-012 REV.: B

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LEGEND:

	EG MAJOR CONTOUR (10 m)
	EG MINOR CONTOUR (2 m)
	PIEZOMETER w/ GROUND WATER ELEVATION

ESTIMATED DEPTH TO WATER TABLE			
NUMBER	MIN. ELEV.	MAX. ELEV.	COLOR
1	10	11	
2	8	10	
3	6	8	
4	4	6	
5	2	4	
6	1	2	
7	0	1	
8	<0		

- NOTES:**
- ELEVATION CONTOURS ARE IN METRES ABOVE SEA LEVEL.
 - AERIAL IMAGERY PROVIDED BY SRC (Gunnar_Final_Ortho).
 - EXISTING TOPOGRAPHY PROVIDED BY SRC (Gunnar_Contours_dwg_Polyline.shp).
 - GROUNDWATER ELEVATION CONTOURS WERE ESTIMATED BASED ON WATER LEVEL MEASUREMENTS CONTAINED IN THE MDH DECEMBER 2012 REPORT ENTITLED "Subsurface Hydrogeological Characterization for the Gunnar Site".
 - DATUM NAD83 ZONE 12.



GUNNAR MAIN TAILINGS AREA - GROUND WATER ELEVATION
1:6,000

CLIENT/PROJECT:

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OKC PROJECT NO.: 963/1

REFERENCE	DWG. NO.	DESCRIPTION	NO.	DESCRIPTION	DRN. BY:	APPD. BY:	DATE	DRN. BY:	DATE	
			B	ISSUED FOR REGULATORY REVIEW.	HSC	BKA	JUNE 29, 2015	B. AYRES, P. Eng	MAY 28, 2015	
								SCALE: 1:6,000	PAGE SIZE: ANSI B	OKC RPT. NO.: 963/1-01

GUNNAR MAIN TAILINGS AREA GROUND WATER ELEVATION	
DWG. NO.: 963/1-013	REV.: B

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OKC REPORT - JUNE 2015 DESIGN REPORT (#963/1-01).